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APPLICATION N	Э.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/718,314		11/20/2003	Masahiro Kawano	9448-148US (G0303US)	9762	
570	7590	06/08/2005		EXAMINER		
		AUSS HAUER & F	CHEN, SOPHIA S			
	ONE COMMERCE SQUARE 2005 MARKET STREET, SUITE 2200				PAPER NUMBER	
PHILADE	LPHIA, P	A 19103		2852	-	
				DATE MAILED: 06/08/2009	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

		A	e
	Application No.	Applicant(s)	
	10/718,314	KAWANO, MASAHIRO	
Office Action Summary	Examiner	Art Unit	
·	Sophia S. Chen	2852	
The MAILING DATE of this communication a	•	ith the correspondence address	
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATIOI  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a least of the period for reply is specified above, the maximum statutory perion failure to reply within the set or extended period for reply will, by state than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply within the statutory minimum of thir iod will apply and will expire SIX (6) MON tute, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on			
2a) This action is <b>FINAL</b> . 2b) ⊠ T	his action is non-final.		
3) Since this application is in condition for allow	wance except for formal mat	ters, prosecution as to the merits is	
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D	). 11, 453 O.G. 213.	
Disposition of Claims		·	
4) Claim(s) 1-9 is/are pending in the application	n.		
4a) Of the above claim(s) is/are withd	rawn from consideration.	•	
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-3 and 5</u> is/are rejected.			
7) Claim(s) <u>4 and 6-9</u> is/are objected to.			
8) Claim(s) are subject to restriction and	d/or election requirement.		
Application Papers			
9)⊠ The specification is objected to by the Exami	iner.		
10)⊠ The drawing(s) filed on <u>11/20/03</u> is/are: a)□	] accepted or b)⊠ objected	to by the Examiner.	
Applicant may not request that any objection to the	he drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the corr	ection is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).	
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached	d Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for forei	ian priority under 35 U.S.C. (	\$ 119(a)-(d) or (f)	
a)⊠ All b)□ Some * c)□ None of:	graphical control of	, , , , , , , , , , , , , , , , , , , ,	
1. Certified copies of the priority docume	ents have been received.		
2. Certified copies of the priority docume	ents have been received in A	opplication No	
<ol><li>Copies of the certified copies of the present</li></ol>	riority documents have been	received in this National Stage	
application from the International Bure	` ' ''		
* See the attached detailed Office action for a li	ist of the certified copies not	received.	
Attachment(s)			
) Notice of References Cited (PTO-892)	4) Interview S	Summary (PTO-413)	
Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s	s)/Mail Date	
<ul> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/( Paper No(s)/Mail Date <u>11/20/03 &amp; 5/3/04</u>.</li> </ul>	08) 5) ☐ Notice of I	nformal Patent Application (PTO-152)	

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

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## **DETAILED ACTION**

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#### **Drawings**

- 1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: R1, R3, R4, R5, R6, R7 (Figure 3), DI (Figure 7), and Va (Figure 9). Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filling date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abevance.
- 2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: Idta (page 19, line 2, etc.). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be

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labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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3. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "A" has been used to designate both "a point" (page 21, line 29; Figures 2 and 9) and "a current" (Figures 2 and 9). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filling date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

### Specification

- 4. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.
- 5. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

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6. The disclosure is objected to because of the following informalities:

- a. Page 1, line 16, "cartridge 3" should be "roller 3".
- b. Page 21, line 32, "3" should be "13".
- c. Page 21, last line, "8" should be "7".

Appropriate correction is required.

## Claim Objections

- 7. Claims 1-9 are objected to because of the following informality:
  - a. Claim 1, lines 10-11, "develop-supplying" should be "developer-supplying".
  - b. Claim 2, last line, "surface said" should be "surface of said".
  - c. Claim 3, line 3, "lest" should be "least".

Appropriate correction is required.

## Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 9. Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Kishimoto (JP 07-271139 A).

Kishimoto discloses an image forming apparatus, comprising: a photoconductive body 1 on which an electrostatic latent image can be formed; a developing member 21 that causes developer 71 to adhere to the electrostatic latent image to develop the

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electrostatic latent image (paragraph [0023]); a developer-supplying member 73 that supplies the developer 71 to the developing member 21 (Figure 1); a current measuring section 80 that measures a current flowing through the developing member 21 (abstract and Figure 1); a voltage-setting section 90 that sets at least one of the developing member 21 and the developer-supplying member 73 to a corresponding one of first voltages, the first voltages being set in timed relation with development of the electrostatic latent image (abstract and paragraphs [0028] and [0029]); and the current being measured in a image forming mode where an electrostatic latent image is formed on a substantially entire surface of the photoconductive body 1 (paragraphs [0003], [0004], and [0028]).

10. Claims 1, 3, and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Hiraoka et al. (US Pat. No. 5,365,318).

The patent discloses an image forming apparatus, comprising: a photoconductive body 10 on which an electrostatic latent image can be formed; a developing member 1 that causes developer to adhere to the electrostatic latent image to develop the electrostatic latent image (column 3, line 66 to column 4, line 2 and Figure 1); a developer-supplying member 2 that supplies the developer to the developing member 1 (Figure 1); a current measuring section that measures a current flowing through the developer-supplying member 2 (inherently; column 12, lines 13-22); a voltage-setting section that sets at least one of the developing member 1 and the developer-supplying member 2 to a corresponding one of first voltages, the first voltages being set in timed relation (not only before but also during the image forming process) with development of

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the electrostatic latent image (column 12, lines 45-66); the current being measured in both the non-image forming mode and in the solid-image forming mode (column 12, lines 21-22 and 45-66).

### Allowable Subject Matter

11. Claims 4 and 6-9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Other Prior Art

12. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Ono et al. (US Pat. No. 4,947,211) discloses an image forming apparatus comprising a photoconductive member; a developing member; a developer-supplying member; a current measuring section that measures a current flowing through the developer-supplying member; and a voltage-setting section.

Folkins (US Pat. No. 5,034,775) discloses an image forming apparatus comprising a photoconductive member; a developing member; a developer-supplying member; a current measuring section that measures a current flowing through the developing member; a voltage-setting section; and the current being measured when the latent image is not being developed.

Kumasaka et al. (US Pat. No. 5,832,350) discloses an image forming apparatus comprising a photoconductive member; a developing member; a developer-supplying

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member; and a current measuring section that measures a current flowing through the developer-supplying member.

Kin et al. (US Pat. Pub. No. US 2002/0009304 A1) discloses an image forming apparatus comprising a photoconductive member; a developing member; a developer-supplying member; a current measuring section that measures a current flowing through the developer-supplying member.

Nakagawa (US Pat. No. 6,871,035 B2) discloses an image forming apparatus comprising a photoconductive member; a developing member; a developer-supplying member; a current measuring section that measures a current flowing through the developer-supplying member; and a voltage-setting section.

Kawashima et al. (JP 06-149029 A) discloses an image forming apparatus comprising a photoconductive member; a developing member; a developer-supplying member; and a current measuring section that measures a current flowing through the developer-supplying member.

Umeno (JP 2000-206766 A) discloses an image forming apparatus comprising a photoconductive member; a developing member; a developer-supplying member; a current measuring section that measures a current flowing through the developing member; and a voltage-setting section.

Takagi et al. (JP 2001-117367 A) discloses an image forming apparatus comprising a photoconductive member; a developing member; a developer-supplying member; and a current measuring section that measures a current flowing through the developer-supplying member.

#### Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sophia S. Chen whose telephone number is (571) 272-2133. The examiner can normally be reached on M-F (7:00-3:00) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Arthur Grimley can be reached on (571) 272-2136. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Sophia S. Chen **Primary Examiner** Art Unit 2852

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Ssc June 6, 2005